GROUNDWATER SAMPLING REPORT
APRIL 2005
BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA
DEH CASE NO. H20530-001

PREPARED FOR:
Ms. Margaret Bright
P.O. Box 1697
Lakeside, California 92040-1747

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
San Diego, California 92123

June 28, 2005
Project No. 104270006

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Ms. Margaret Bright
P.O. Box 1697
Lakeside, California 92040-1747

Subject: Groundwater Sampling Report
April 2005
Bright's 24-Hour Fuel Stop
12210 Industry Road
Lakeside, California
DEH Case No. H20530-001

Dear Ms. Bright:

Ninyo & Moore is pleased to submit this April 2005 groundwater sampling report for the subject site. The purpose of this groundwater sampling event was to monitor groundwater quality in the site wells. The groundwater sampling was performed in response to the County of San Diego Department of Environmental Health (DEH) letter dated November 8, 2004. Project tasks were performed in accordance with the DEH-approved work plan and current Site Assessment and Mitigation (SAM) Manual guidelines.

We appreciate the opportunity to be of continued service to you on this project. If you have any questions or comments regarding this report, please contact the undersigned.

Sincerely,
NINYO & MOORE

Sean O. McGoey, R.E.A.
Senior Project Environmental Geologist

W. Scott Snyder, R.G., HG.
Senior Project Hydrogeologist

JBP/SOM/SLS/WSS/msf/gg

Distribution: (2) Addressee
(1) Mr. Danny Martinez; County of San Diego DEH

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1. INTRODUCTION

This report summarizes the April 2005 groundwater sampling event at Bright's 24-Hour Fuel Stop located at 12210 Industry Road in Lakeside, California (Site, Figure 1), which was conducted by Ninyo & Moore. This report was prepared in response to the County of San Diego, Department of Environmental Health (DEH) letter dated November 8, 2004 (Appendix A), and in accordance with the DEH-approved work plan dated July 17, 2002, and current DEH Site Assessment and Mitigation (SAM) Manual guidelines.

1.1. Purpose

The purpose of the groundwater sampling event was to monitor groundwater quality at the Site.

1.2. Scope of Work

The scope of work performed during this groundwater sampling event included:

- project management and coordination,
- gauging and purging of groundwater monitoring wells,
- collecting groundwater samples for analysis by a California-certified testing laboratory,
- compiling and analyzing the groundwater analytical data,
- submitting analytical data and survey coordinates to the State Water Resources Control Board Geographical Environmental Information Management System (GeoTracker), per State Assembly Bill 2886 (Appendix B),
- preparing this report summarizing previous and current environmental assessment activities and providing conclusions and recommendations.

2. SITE IDENTIFICATION

The Site is located at 12210 Industry Road, Lakeside, California, and encompasses approximately 0.8 acres of land. Further Site information is given below.

Name of Business:	Bright's 24-Hour Fuel Stop

Site Address:	12210 Industry Road Lakeside, California 92040
DEH Case Number:	H20530-001
Assessor's Parcel Number:	394-011-33-00
Property Owner:	El Capitan Oil Company 11427 Woodside Avenue Santee, California 92040
Former Tank Owner and Operator:	Ms. Margaret Bright P.O. Box 1697 Lakeside, California 92040
Contact Person:	Ms. Margaret Bright P.O. Box 1697 Lakeside, California 92040 Phone No. (619) 443-1671
Current Tank Owner and Operator:	El Capitan Oil Company 11427 Woodside Avenue Santee, California 92040
Consultant:	Ninyo & Moore 5710 Ruffin Road San Diego, California 92123 Phone No. (858) 576-1000

3. SITE DESCRIPTION

The Site has been an active fueling station since 1986 and has four permitted underground storage tanks (USTs), which contain gasoline and diesel. The Site also contains a small electrical/utility building, four fuel dispensing islands, and landscaped areas. The USTs and fuel dispensers were upgraded in 1998. The remainder of the Site is paved with concrete. The Site is located in a mixed commercial/industrial area and is bordered to the north by an undeveloped lot, to the east by Barnmaster, Inc., to the west by Pacific Freightliner Trucks, and to the south by Industry Road, beyond which is State Highway 67 (Figure 2).

4. SITE BACKGROUND

Prior to the late 1960s, the Site was used for agricultural purposes; for the next 20 to 25 years, it was used for gravel mining operations. In 1986, the Site was developed as a gasoline and diesel service station. From 1986 to the present, the Site has remained the same, with a property transfer to El Capitan Oil Company in 1998.

5. PREVIOUS SITE ASSESSMENT SUMMARY

The following information summarizes the previous assessment work performed at the Site and adjacent properties by Ninyo & Moore and other consultants.

- In February 2000, Ninyo & Moore drilled and sampled five locations (NMB1–NMB5) at the undeveloped property adjacent to the north of the Site to assess the groundwater conditions. Soil samples were not collected. Groundwater was encountered at depths ranging from 30 to 32 feet below ground surface (bgs). Three of the five groundwater samples contained concentrations of methyl tertiary butyl ether (MTBE) at concentrations of 1.5, 3.2, and 4.7 micrograms per liter (µg/ℓ). Concentrations of total petroleum hydrocarbons (TPH) as gasoline (TPH-G), TPH as diesel (TPH-D), and benzene, toluene, ethyl-benzene, and xylenes (BTEX) were not detected in groundwater samples.

- In February 2000, Ninyo & Moore also performed a soil gas survey of the undeveloped property adjacent to the north of the Site. Twelve locations were sampled (NMSV1–NMSV12). Concentrations of TPH-G were detected in three samples at a maximum concentration of 4 parts per million vapor (ppmv). None of the soil gas sample locations adjacent to the Site contained detectable concentrations of TPH-G. Concentrations of benzene were detected in four samples at a maximum concentration of 0.3 ppmv. MTBE was not detected in the soil gas samples.

- In June 2002, Kahl Environmental Services drilled and sampled two borings (Kahl-A and Kahl-B) at the Site. Soil samples were collected near the soil/groundwater interface, and groundwater samples were collected from each boring and analyzed. The soil and groundwater samples did not contain detectable concentrations of TPH-G, TPH-D, or BTEX. The groundwater samples contained MTBE at concentrations of 5 µg/ℓ (Kahl-B) and 48 µg/ℓ (Kahl-A).

- In December 2002, Ninyo & Moore drilled and installed five groundwater monitoring wells (NM-MW1 through NM-MW5) at the Site. Select soil samples were analyzed for TPH-G, TPH-D, BTEX, ether oxygenates (EOs), and organic lead. Concentrations of TPH-G, benzene, ethylbenzene, and organic lead were not detected. Concentrations of TPH-D were detected at a maximum of 860 milligrams per kilogram (mg/kg) in boring NM-MW4 at a

depth of 1 foot bgs. MTBE was detected in two soil samples collected from boring NM-MW4 at concentrations of 5 and 15 micrograms per kilogram (µg/kg) at depths of 5 and 10 feet bgs, respectively. The wells were developed, surveyed, gauged, purged, and sampled according to the current SAM Manual guidelines. The samples were analyzed for TPH-G, TPH-D, BTEX, EOs, and organic lead. MTBE was detected in two wells, NM-MW3 and NM-MW4 at concentrations of 16 and 52 µg/ℓ, respectively. Tert-butyl alcohol was also detected in well NM-MW3 at a concentration of 6.5 µg/ℓ. Concentrations of TPH-G, TPH-D, BTEX, and other EOs were not detected.

- Since December 2002, the five on-Site groundwater monitoring wells have been gauged, purged, and sampled for six groundwater monitoring events (including the April 2005 event) on an approximate quarterly basis. Analytical results from the previous groundwater monitoring sampling events are summarized in Table 2 and Figure 4.

6. TOPOGRAPHY

Based on review of the United States Geological Survey, El Cajon, California, 7.5-minute quadrangle map (1967, Photorevised 1975), the Site is situated at an elevation of approximately 390 feet above mean sea level (Figure 3). A sand pit and disturbed surface areas are present in the vicinity of the Site. Surface drainage in the general vicinity of the Site is to the northwest, toward the San Diego River, located approximately 1,000 feet north of the Site.

7. GEOLOGY

This section summarizes the regional geologic setting and Site geologic conditions. The information is based on our review of the referenced, published, and unpublished reports, and observations made by Ninyo & Moore at the Site.

7.1. Regional Geologic Setting

The project area is situated in the western portion of the Peninsular Ranges geomorphic province of Southern California. The province encompasses an area that extends 125 miles from the Transverse Ranges and the Los Angeles Basin, south to the Mexican border, and continues another 775 miles to the tip of Baja California. The province varies in width from 30 to 100 miles, most of which is characterized by northwest-trending mountain ranges separated by subparallel fault zones. In general, the mountain ranges are underlain by Juras-

sic-age metavolcanic and metasedimentary rocks and Cretaceous-age igneous rocks, which are known as the Southern California batholith. The western portion of the province, in which the Site is located, generally consists of Upper Cretaceous-, Tertiary-, and Quaternary-age sedimentary rocks (Kennedy and Peterson, 1975).

7.2. Site Geologic Conditions

The Site is underlain by fill, which consists of a medium to dark brown, medium dense to very dense, silty, fine to medium sand, with gravels, cobbles, and boulders, and medium brown, medium dense to dense, clayey, fine to medium sand, with gravels, cobbles, and boulders. Small amounts of construction debris were observed in the fill soil cuttings including steel cables, wood, and metal. The fill ranged from 9 to 22.5 feet in thickness. The fill is underlain by alluvial deposits, which consist of dark brown, loose to medium dense, clayey silt, and medium to dark brown, loose to dense, silty, fine to medium sand, and medium brown, medium dense, clayey, fine to medium sand. The alluvial deposits were encountered in all five borings.

8. HYDROGEOLOGY

This section summarizes the regional hydrogeologic setting and Site hydrogeologic conditions. The information is based on our review of the referenced published and unpublished reports and observations made by Ninyo & Moore at the Site.

8.1. Regional Hydrogeologic Setting

Based on the review of available hydrogeologic data from the Regional Water Quality Control Board (RWQCB) and the California Department of Water Resources (DWR), the Site is located in the Santee Hydrologic Subarea of the Lower San Diego Hydrologic Area, within the San Diego Hydrologic Unit. The nearest surface water drainages are the San Diego River (drains to the west), located approximately 1,000 feet north of the Site, and Los Coches Creek (drains to the north into the San Diego river), located approximately 1,000 feet south of the Site. The RWQCB has assigned the surface waters in the San Diego River watershed

the following existing beneficial uses: industrial service supply, contact and non-contact water recreation, warm and cold freshwater habitat, and wildlife habitat. The potential beneficial uses of surface waters in this area are municipal and domestic supply. The RWQCB has assigned the following existing beneficial uses for groundwater in the area: municipal and domestic supply, agricultural supply, industrial service supply, and industrial process supply.

The known groundwater production wells closest to the Site include the Riverview Water District well field, located approximately 3,400 feet west of the Site, and a Lakeside Water District well, located approximately 3,500 feet northeast of the Site. Both are active groundwater production wells. Based on the topography of the area, our understanding of Site groundwater gradient, and the general flow direction of the San Diego River, the Riverview Water District well field is crossgradient to downgradient of the Site, and the Lakeside Water District well is upgradient of the Site.

8.2. Site Hydrogeologic Conditions

Groundwater was measured at 369.73 to 371.02 feet above mean sea level (MSL) during the most recent field activities in April 2005. Based on the topography of the Site vicinity and surveyed groundwater elevations, the Site groundwater flow direction is northwest, toward the San Diego River. However, groundwater depths, flow direction, and gradient may be influenced by seasonal fluctuations, groundwater withdrawal or injection, and other factors.

9. PROJECT OBJECTIVE AND GROUNDWATER SAMPLING ACTIVITIES

The objective of this groundwater sampling event was to monitor concentrations of previously assessed groundwater contamination at the Site. The following sections describe the recent groundwater sampling activities.

9.1. Health and Safety Plan

Ninyo & Moore updated a Site-specific health and safety plan (HASP) that identified the potential chemical and physical hazards that may be encountered during the field activities. In addition, the HASP provided guidelines for use of personal protective equipment based on Site-specific conditions, location and directions to the nearest hospital, and contingency plans.

9.2. Well Sampling Procedures

Groundwater sampling was conducted on April 18 and April 20, 2005. Data from monitoring well purging and sampling were recorded on field data sheets included in Appendix C. Groundwater elevation data for the wells are summarized in Table 1.

Depths to groundwater were measured using an electric water-level sounder and were recorded from top of well casing to the nearest 0.01 foot. Utilizing the surveyed top of casing reference elevations and depth to groundwater measurements, the groundwater flow direction and gradient were calculated.

On April 18 and April 20, 2005, the wells were purged and sampled using the DEH fast-recharging purge and sample method (3-borehole volumes). The wells were purged using a 12-volt pump system. The purged water was monitored for temperature, pH, electrical conductivity, dissolved oxygen, salinity, and turbidity. When 3-borehole volumes of water was purged and the groundwater levels recovered to at least 80 percent, sample containers were filled using a new factory-wrapped, disposable plastic bailer for each well.

9.3. Quality Assurance and Quality Control

All non-dedicated equipment used for purging and sampling was assembled and properly cleaned and calibrated (if required) prior to arriving at the Site. As required, field analytical equipment was calibrated according to the manufacturers' specifications prior to field use.

The water-level probe and cable used to determine static water levels and total well depths were cleaned before and after field use and between sampling locations. In addition to the use of properly cleaned equipment, a new pair of disposable nitrile gloves was worn by sampling personnel during the sampling of each monitoring well.

9.3.1. Sample Handling

Groundwater samples were labeled with pertinent information including project number, project name, sample identification, sample collection date and time, preservation, and the sampler's initials. The samples were placed into a cooler maintained at approximately 4 degrees Celsius (°C). Proper chain-of-custody procedures were followed. Samples were transferred to Calscience Environmental Laboratories, a state-certified laboratory, for analytical testing.

9.3.2. Decontamination Procedures

Sample collection equipment was decontaminated prior to each sampling event. Decontamination procedures included a non-phosphate detergent and water wash, followed by potable and deionized water rinses. Decontamination fluids were placed in one appropriately labeled Department of Transportation (DOT)-compliant, 55-gallon drum. The drum was temporarily stored on Site pending disposal/recycling.

9.4. Site Restoration/Assessment-Derived Waste Management

Purged groundwater was placed in eight DOT-compliant 55-gallon drums and labeled with pertinent identification information. The contents of the drum were being profiled at the time of this report and a copy of the manifest will be submitted under separate cover.

9.5. Analytical Testing Methods

Five groundwater samples were analyzed for TPH-G and TPH-D using the California Department Health Services Leaking Underground Fuel Tanks method 8015, BTEX and EOs by United States Environmental Protection Agency (USEPA) test method 8260B, and for to-

tal lead by USEPA test method 6010B. A copy of the laboratory analytical reports and chain-of-custody documentation is presented in Appendix D.

9.6. GeoTracker Reporting Requirements

In accordance with State Assembly Bill 2886, survey coordinates and analytical data from this sampling event were submitted to the State Water Resources Control Board Geotracker system.

10. FINDINGS

Table 2 summarizes groundwater sample analytical results. Based on the laboratory analytical results, the following findings are presented:

- Depth to groundwater was calculated to be 369.73 to 371.02 feet above mean sea level in the monitoring wells on April 18, 2005. Groundwater levels have increased in all of the measured wells since the last monitoring event in December 2004.
- The overall groundwater flow direction is toward the northwest with an average gradient of 0.006 feet per foot.
- MTBE was detected in one groundwater sample from well NM-MW4 at a concentration of 8.5 µg/ℓ. MTBE was not detected in the other samples collected from the Site.
- TPH-G, TPH-D, BTEX, and lead were not detected in the five groundwater samples analyzed.

11. CONCLUSIONS

Based upon the findings of this groundwater sampling event, the following conclusions are made at this time:

- The concentration of MTBE (8.5 µg/ℓ) in the groundwater sample collected from well NM-MW3 was below the primary maximum contaminant level (MCL) of 13 µg/ℓ for MTBE.
- Concentrations of TPH-D, detected in NM-MW2 in July 2004 and in NM-MW4 in December 2004, were not detected during the April 2005 monitoring event.

- The closest known groundwater production wells include the Riverview Water District well field, located approximately 3,400 feet to the west of the Site, and a Lakeside Water District well, located approximately 3,500 feet to the northeast of the Site. Based on the groundwater gradient and presence of the San Diego River to the north of the Site, the Riverview Water District well field is crossgradient to downgradient of the Site and the Lakeside Water District well is upgradient of the Site.

- Based on the concentrations of MTBE in groundwater at the Site, and the distance to the nearest production well, it is unlikely that this reported release would impact the water quality of the production wells, assuming no change in operating status of the production wells.

12. RECOMMENDATIONS

Based upon the finding of this and previous assessment activities conducted at the Site, and the conclusions presented above, Ninyo & Moore recommends that a Corrective Action Plan be prepared and submitted to the DEH for approval.

13. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in Site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-Site and/or nearby use of hazardous materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject Site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed Site conditions. It should be understood that the conditions of a Site could change with time as a result of natural processes or the activities of man at the subject Site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

14. SELECTED REFERENCES

California Department of Water Resources (DWR), 1967, Groundwater Occurrence and Quality, San Diego Region, Bulletin No. 106-2, V-1:text.

County of San Diego, Department of Environmental Health, 2002, Work Plan Approval, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California: dated July 23.

County of San Diego, Department of Environmental Health, 2003, Letter, Unauthorized Release Case # H20530-001, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California 92040-1747: dated June 26.

County of San Diego, Department of Health Services, Site Assessment and Mitigation Division, 2003, Site Assessment & Mitigation (SAM) Manual.

Kennedy, M.P. and Peterson, G.L., 1975, Geology of the San Diego Metropolitan Area, California: California Division of Mines and Geology, Bulletin 200.

Ninyo & Moore, 2000, Phase II Environmental Site Assessment, Barnmaster, 10124 Channel Road, Lakeside, California: dated May 15.

Ninyo & Moore, 2000, Soil Vapor Assessment, Barnmaster, 10124 Channel Road, Lakeside, California: dated June 19.

Ninyo & Moore, 2002, Phase II Environmental Site Assessment Work Plan, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California: dated July 17.

Ninyo & Moore, 2003, Groundwater Sampling Event, July 2003, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California 92040: dated October 31.

Ninyo & Moore, 2004, Groundwater Sampling Event, Fourth Quarter 2003, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California: dated March 10.

Ninyo & Moore, 2004, Groundwater Sampling Event, First Quarter 2004, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California: dated May 31.

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Ninyo & Moore, 2005, Groundwater Sampling Report, December 2004, Bright's 24-Hour Fuel Stop, 12210 Industry Road, Lakeside, California: dated April 1.

Norris, R.M., and Webb, R.W., 1990, Geology of California, Second Edition: John Wiley & Sons, Inc., p. 220-249.

Regional Water Quality Control Board (RWQCB), 1994, Comprehensive Water Quality Control Plan Report, San Diego Basin (9), prepared with the San Diego Regional Water Quality Control Board.

U.S. Geological Survey, 1968 (photorevised 1975), El Cajon Quadrangle – San Diego County, 7.5 minute series (topographic).

Table 1 – Groundwater Survey Data

Well	Date	Top of Well Casing Elevation*	Depth to Groundwater**	Groundwater Elevation*
NM-MW1	12/13/02	392.53	26.12	366.41
	7/24/03		24.13	368.40
	11/19/03		25.95	366.58
	3/19/04		23.87	368.66
	7/27/04		26.47	366.06
	12/20/04		24.96	367.57
	4/18/05		21.51	371.02
NM-MW2	12/13/02	391.29	25.66	365.64
	7/24/03		23.90	367.39
	11/19/03		25.50	365.79
	3/19/04		23.19	368.10
	7/27/04		26.05	365.24
	12/20/04		24.40	366.89
	4/18/05		21.08	370.21
NM-MW3	12/12/02	393.45	28.00	365.45
	7/24/03		26.46	366.99
	11/20/03		27.96	365.49
	3/19/04		25.66	367.79
	7/27/04		28.46	364.99
	12/20/04		26.82	366.63
	4/18/05		23.72	369.73
NM-MW4	12/12/02	392.39	26.82	365.57
	7/24/03		25.02	367.37
	11/19/03		26.72	365.67
	3/19/04		24.35	368.04
	7/27/04		27.23	365.16
	12/20/04		25.50	366.89
	4/18/05		22.23	370.16
NM-MW5	12/13/02	392.74	27.01	365.73
	7/24/03		25.39	367.35
	11/19/03		27.05	365.69
	3/19/04		24.85	367.89
	7/27/04		27.54	365.20
	12/20/04		25.94	366.80
	4/18/05		22.71	370.03

Notes:
*Measured in feet above mean sea level.
**Measured from top of casing.

Table 2 – Groundwater Analytical Results

Sample Identification	Date Sampled	TPH-G (µg/ℓ)	TPH-D (µg/ℓ)	Benzene (µg/ℓ)	Toluene (µg/ℓ)	Ethylbenzene (µg/ℓ)	Xylenes (µg/ℓ)	EOs (µg/ℓ)	Lead (mg/ℓ)
NM-MW1	12/13/02	ND	ND	ND	ND	ND	ND	ND	--
	7/24/03	ND	ND	ND	ND	ND	ND	ND	--
	11/19/03	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/04	ND	ND	ND	ND	ND	ND	ND	ND
	7/28/04	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/04	ND	*ND	ND	ND	ND	ND	ND	ND
	4/18/05	ND	ND	ND	ND	ND	ND	ND	ND
NM-MW2	12/13/02	ND	ND	ND	ND	ND	ND	ND	--
	7/24/03	ND	ND	ND	ND	ND	ND	ND	--
	11/19/03	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/04	ND	ND	ND	ND	ND	ND	ND	ND
	7/27/04	ND	**530**	ND	ND	ND	ND	ND	ND
	12/20/04	ND	ND	ND	ND	ND	ND	ND	ND
	4/18/05	ND	ND	ND	ND	ND	ND	ND	ND
NM-MW3	12/12/02	ND	ND	ND	ND	ND	ND	**16-MTBE, 6.5-TBA**	--
	7/24/03	ND	ND	ND	ND	ND	ND	**49-MTBE**	ND
	11/20/03	ND	ND	ND	ND	ND	ND	**14-MTBE**	ND
	3/22/04	ND	ND	ND	ND	ND	ND	**31-MTBE**	ND
	7/27/04	ND	ND	ND	ND	ND	ND	**17-MTBE**	ND
	12/20/04	ND	*ND	ND	ND	ND	ND	**3.9-MTBE**	ND
	4/18/05	ND	ND	ND	ND	ND	ND	ND	ND
NM-MW4	12/12/02	ND	ND	ND	ND	ND	ND	**52-MTBE**	--
	7/24/03	ND	ND	ND	ND	ND	ND	**7.9-MTBE**	--
	11/19/03	ND	ND	ND	ND	ND	ND	**25-MTBE**	ND
	3/22/04	ND	ND	ND	ND	ND	ND	**32-MTBE**	ND
	7/28/04	ND	ND	ND	ND	ND	ND	**11-MTBE**	ND
	12/20/04	ND	**520**	ND	ND	ND	ND	**51-MTBE**	ND
	4/20/05	ND	ND	ND	ND	ND	ND	**8.5-MTBE**	ND

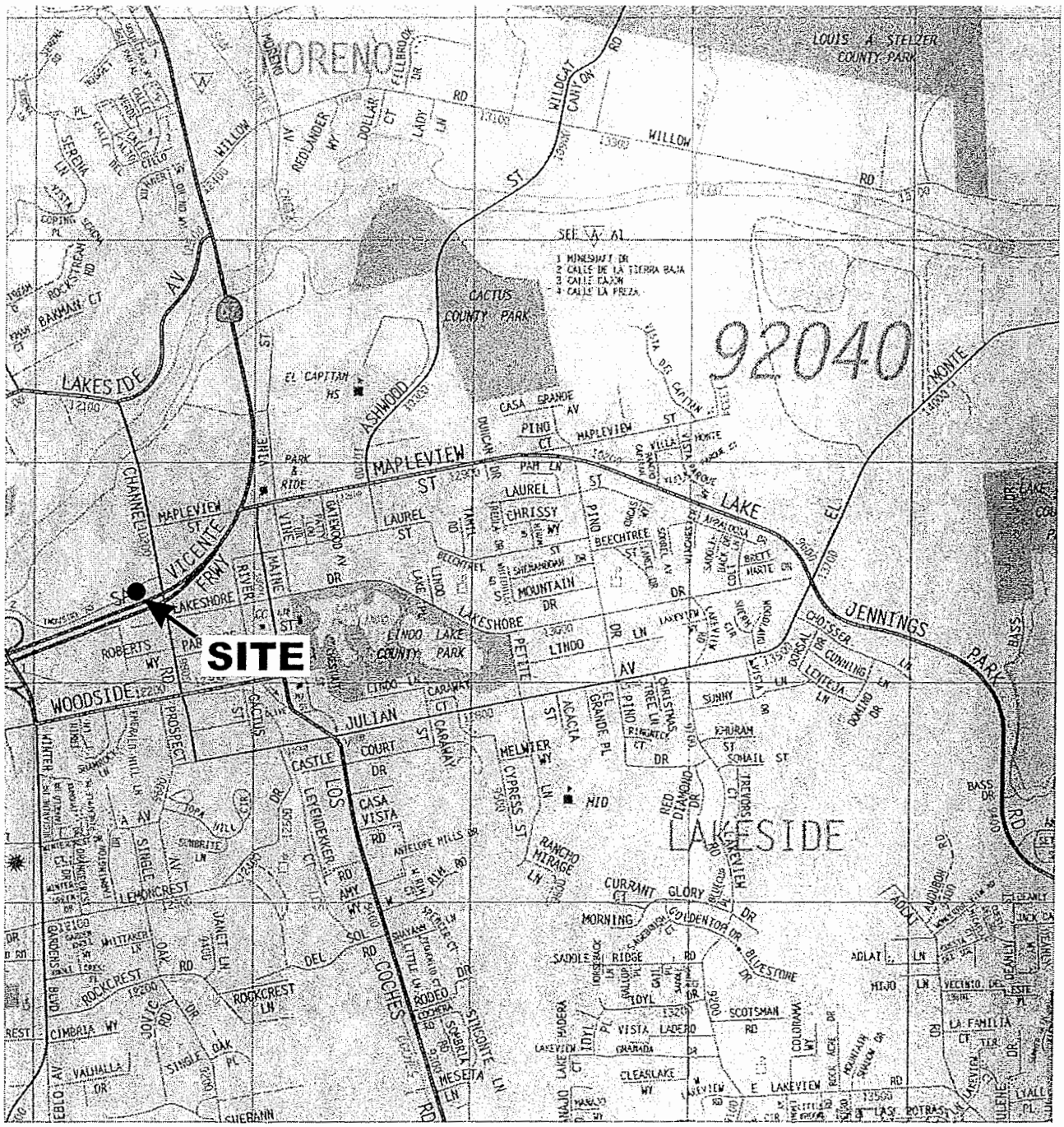
Table 2 – Groundwater Analytical Results

Sample Identification	Date Sampled	TPH-G (µg/ℓ)	TPH-D (µg/ℓ)	Benzene (µg/ℓ)	Toluene (µg/ℓ)	Ethylbenzene (µg/ℓ)	Xylenes (µg/ℓ)	EOs (µg/ℓ)	Lead (mg/ℓ)
NM-MW5	12/13/02	ND	ND	ND	ND	ND	ND	ND	--
	7/24/03	ND	ND	ND	ND	ND	ND	ND	--
	11/19/03	ND	ND	ND	ND	ND	ND	ND	ND
	3/19/04	ND	ND	ND	ND	ND	ND	ND	ND
	7/27/04	ND	ND	ND	ND	ND	ND	ND	ND
	12/20/04	ND	*ND	ND	ND	ND	ND	ND	ND
	4/20/05	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

-- = Not analyzed.
ND = Not detected at or above reporting limits.
EOs = Ether oxygenates
MTBE = Methyl tert-butyl ether
TBA = Tert-butyl alcohol

TPH-G = Total petroleum hydrocarbons- gasoline
TPH-D = Total petroleum hydrocarbons - diesel
µg/ℓ = Micrograms per liter.
mg/ℓ = Milligrams per liter.
* = Sampled on Dec.30, 2004



REFERENCE: 2002 THOMAS GUIDE FOR SAN DIEGO COUNTY, STREET GUIDE AND DIRECTORY

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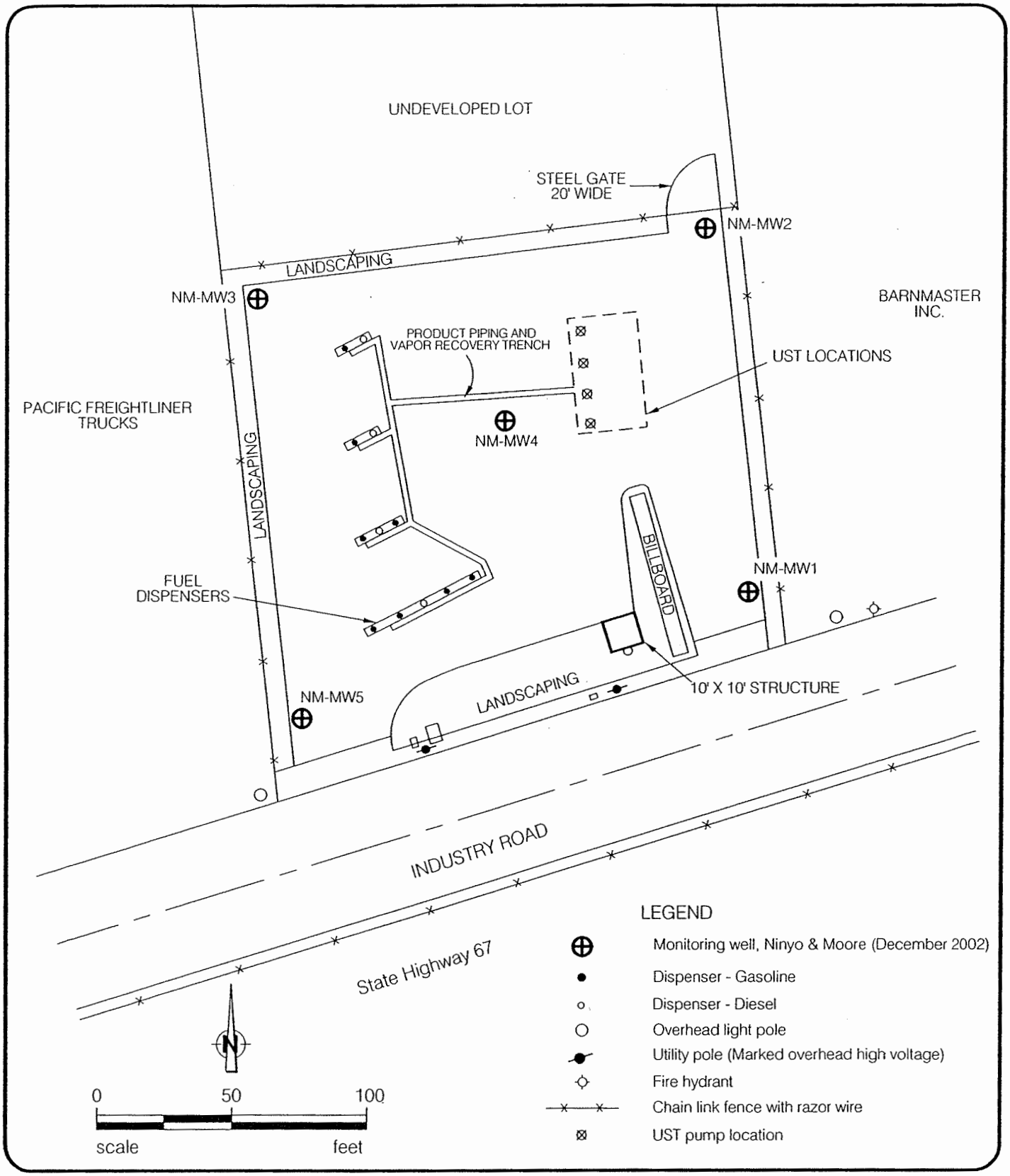
Ninyo & Moore

SITE LOCATION MAP

BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA

PROJECT NO.	DATE	FIGURE
104270006	6/05	1



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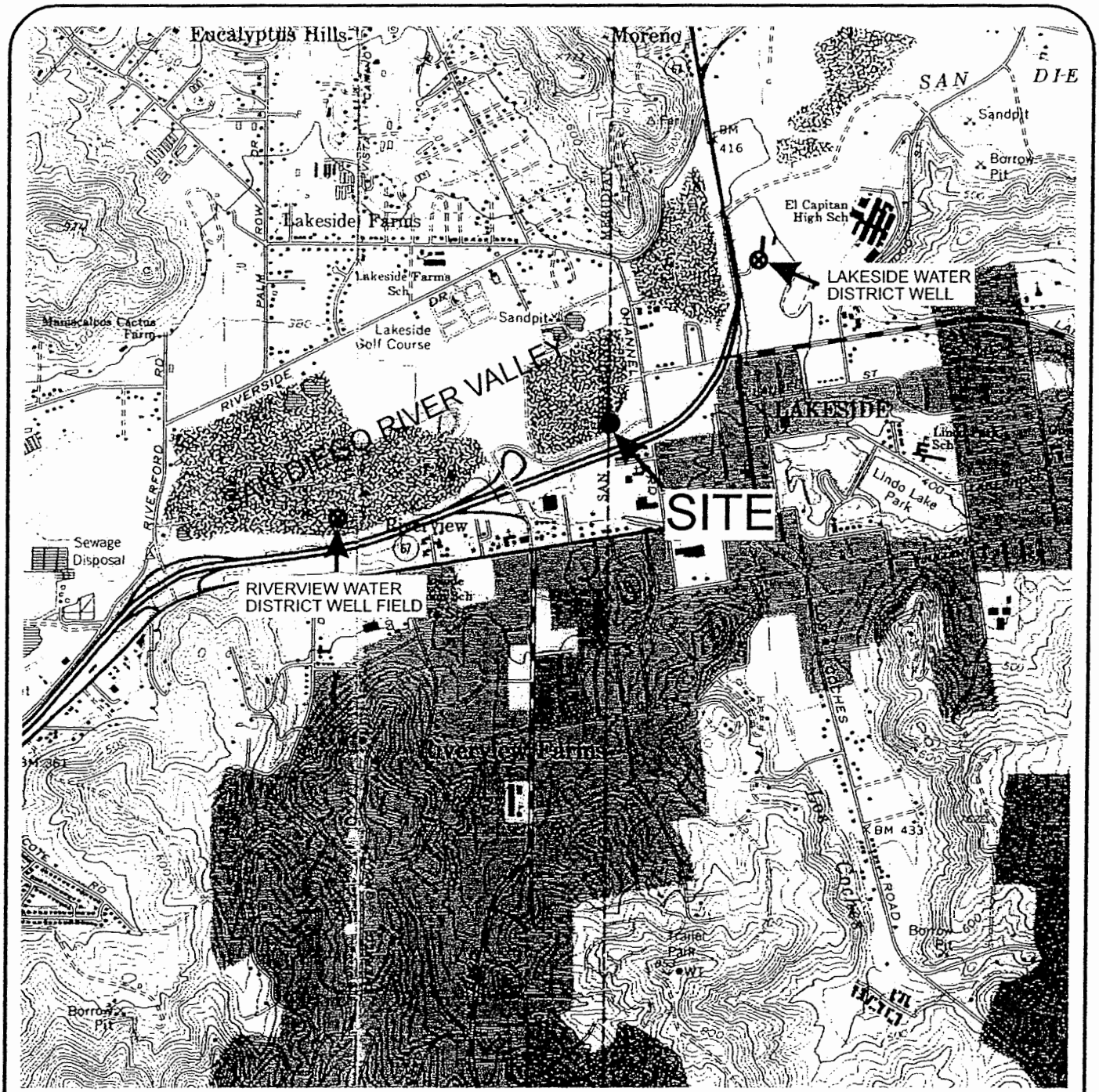
Ninyo & Moore

SITE PLAN AND VICINITY MAP

BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA

PROJECT NO.	DATE	FIGURE
104270006	6/05	2



REFERENCE: U.S.G.S., EL CAJON QUADRANGLE, 7.5 MINUTE SERIES (TOPOGRAPHIC), DATED 1967, PHOTOREVISED 1975.

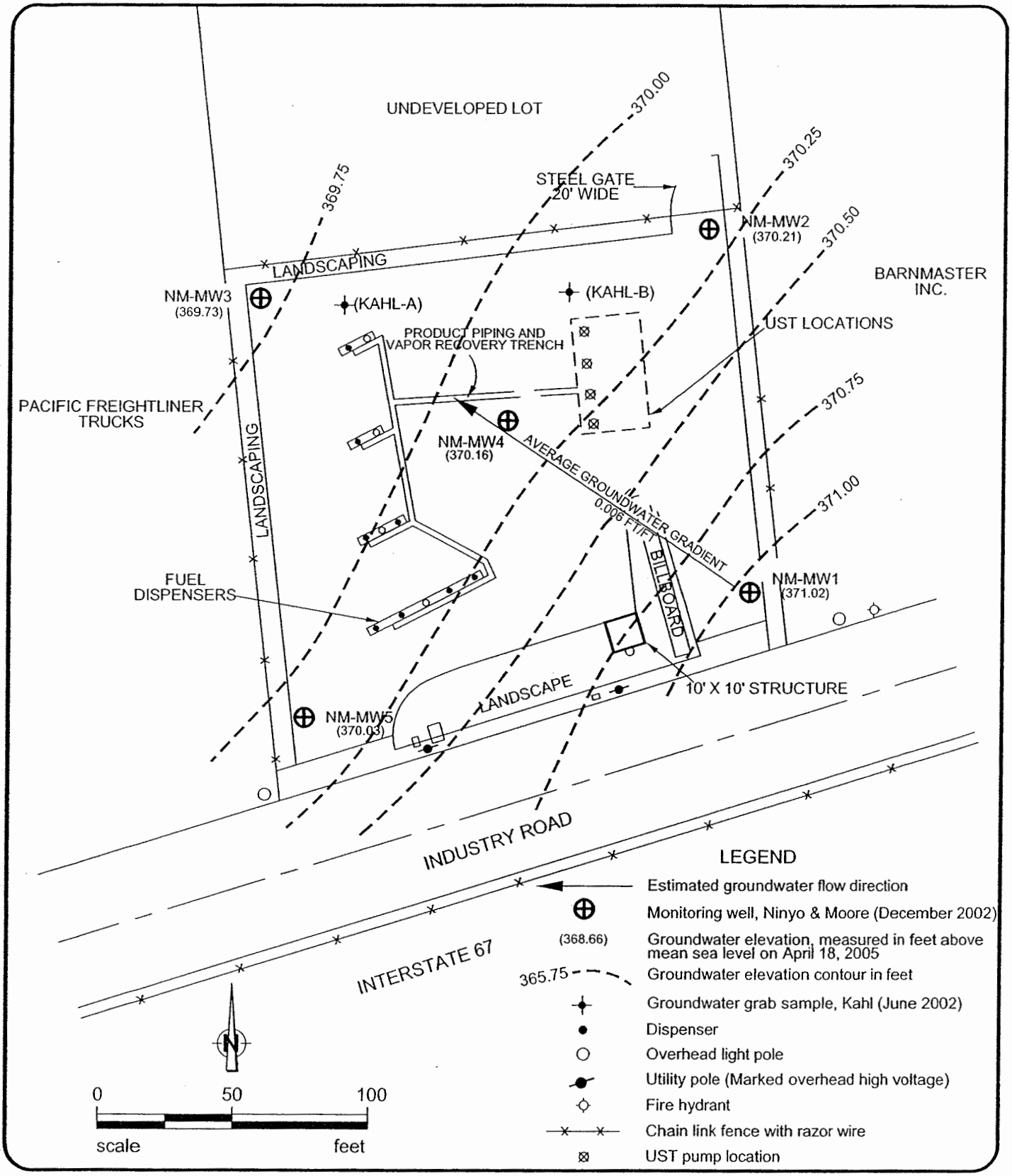
104270006 F topo Fig 3

Ninyo & Moore

TOPOGRAPHIC MAP

BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA

PROJECT NO.	DATE	FIGURE
104270006	6/05	3



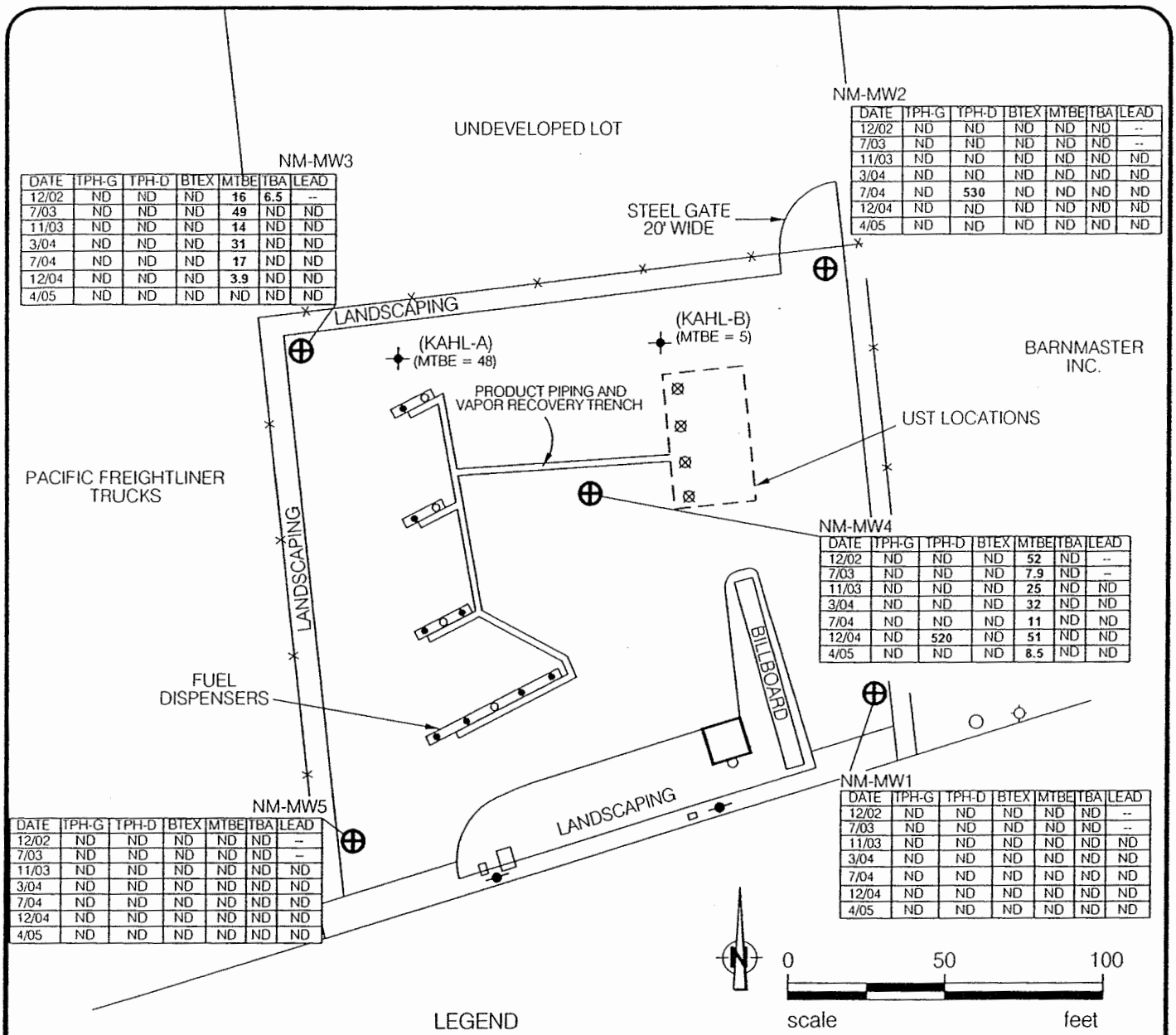
104270006 F gw grad Fig 4 5-05

Ninyo & Moore

GROUNDWATER GRADIENT MAP

BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA

PROJECT NO.	DATE	FIGURE
104270006	6/05	4



NM-MW3						
DATE	TPH-G	TPH-D	BTEX	MTBE	TBA	LEAD
12/02	ND	ND	ND	**16**	**6.5**	--
7/03	ND	ND	ND	**49**	ND	ND
11/03	ND	ND	ND	**14**	ND	ND
3/04	ND	ND	ND	**31**	ND	ND
7/04	ND	ND	ND	**17**	ND	ND
12/04	ND	ND	ND	**3.9**	ND	ND
4/05	ND	ND	ND	ND	ND	ND

NM-MW2						
DATE	TPH-G	TPH-D	BTEX	MTBE	TBA	LEAD
12/02	ND	ND	ND	ND	ND	--
7/03	ND	ND	ND	ND	ND	--
11/03	ND	ND	ND	ND	ND	ND
3/04	ND	ND	ND	ND	ND	ND
7/04	ND	**530**	ND	ND	ND	ND
12/04	ND	ND	ND	ND	ND	ND
4/05	ND	ND	ND	ND	ND	ND

NM-MW4						
DATE	TPH-G	TPH-D	BTEX	MTBE	TBA	LEAD
12/02	ND	ND	ND	**52**	ND	--
7/03	ND	ND	ND	**7.9**	ND	--
11/03	ND	ND	ND	**25**	ND	ND
3/04	ND	ND	ND	**32**	ND	ND
7/04	ND	ND	ND	**11**	ND	ND
12/04	ND	**520**	ND	**51**	ND	ND
4/05	ND	ND	ND	**8.5**	ND	ND

NM-MW5						
DATE	TPH-G	TPH-D	BTEX	MTBE	TBA	LEAD
12/02	ND	ND	ND	ND	ND	--
7/03	ND	ND	ND	ND	ND	--
11/03	ND	ND	ND	ND	ND	ND
3/04	ND	ND	ND	ND	ND	ND
7/04	ND	ND	ND	ND	ND	ND
12/04	ND	ND	ND	ND	ND	ND
4/05	ND	ND	ND	ND	ND	ND

NM-MW1						
DATE	TPH-G	TPH-D	BTEX	MTBE	TBA	LEAD
12/02	ND	ND	ND	ND	ND	--
7/03	ND	ND	ND	ND	ND	--
11/03	ND	ND	ND	ND	ND	ND
3/04	ND	ND	ND	ND	ND	ND
7/04	ND	ND	ND	ND	ND	ND
12/04	ND	ND	ND	ND	ND	ND
4/05	ND	ND	ND	ND	ND	ND

LEGEND

- Monitoring well, Ninyo & Moore (December 2002)
- Groundwater grab sample, Kahl (June 2002)
- Dispenser - Gasoline
- Dispenser - Diesel
- Overhead light pole
- Utility pole (Marked overhead high voltage)
- Fire hydrant
- Chain link fence with razor wire
- UST pump location

Note: Other ether oxygenates not shown were not detected

(MTBE = 5)	Analyte detected above method detection limit reported in micrograms per liter
MTBE	Methyl Tert-Butyl Ether
TBA	Tert-butyl Alcohol
ND	Not detected at or above detection limits
TPH-G	Total Petroleum Hydrocarbons as Gasoline
TPH-D	Total Petroleum Hydrocarbons as Diesel
BTEX	Benzene, Toluene, Ethylbenzene, and total Xylenes
LEAD	Total Lead in milligrams per liter (mg/L)

104270006 F gw analy Fig 5 5-05

Ninyo & Moore

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY ROAD
LAKESIDE, CALIFORNIA

PROJECT NO.	DATE	FIGURE
104270006	6/05	5

APPENDIX A

DEPARTMENT OF ENVIRONMENTAL HEALTH LETTER

DATED NOVEMBER 8, 2004

RECEIVED
NOV 1 1 2004
NINYO & MOORE

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

RICHARD HAAS
ASSISTANT DIRECTOR

November 8, 2004

Ms. Margaret Bright
Bright's 24-Hour Fuel Stop
13329 Lakeshore Drive
Lakeside, CA 92040

Ms. Elizabeth Ederer
Lakeside Business Park, Inc.
P.O. Box 21276
El Cajon, CA 92021

Dear Ms. Bright and Ms. Ederer:

UNAUTHORIZED RELEASE CASE H20530-001
BRIGHT'S 24-HOUR FUEL STOP
12210 INDUSTRY RD., LAKESIDE, CA 92040-1747

Staff of the County of San Diego Site Assessment and Mitigation Program (SAM) has reviewed the *Groundwater Sampling Report Second Quarter 2004*, prepared by Ninyo and Moore on October 15, 2004.

SAM has determined that assessment of this site is complete and additional fieldwork is not required at this time. Groundwater monitoring data indicates that MTBE concentrations exceed the Maximum Contaminant Levels for sites located in a beneficial basin, consequently, you are required to submit a Corrective Action Plan (CAP) before this case can be considered for closure. Please continue quarterly monitoring until further notice.

Within 60 days of this letter, please submit a CAP to my attention. Natural Attenuation should be considered as a remedial alternative.

If you have any questions, please call me at (619) 338-2456.

Sincerely,

DANNY MARTINEZ, Environmental Health Specialist
Site Assessment and Mitigation Program

DM:kd

cc: Mr. Sean McGoey, Ninyo and Moore

WP/H20530-001-1104

APPENDIX B

GEOTRACKER AB 2886 ELECTRONIC DELIVERY SHEET

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

BRIGHT'S 24 HOUR FUEL STOP - T0607399257
NO ADDRESS
, CA

* DENOTES THAT A SUBMITTAL HAS BEEN AUTO-RECEIVED

EDF SUBMITTALS

CONF NUM	TITLE	QUARTER	SUBMITTED BY	SUBMIT DATE	STATUS		
8280511975	LABORATORY DATA FOR SOIL	Q4 2002	MICHAEL DENNY	1/2/2003	RECEIVED ON 7/10/2003	VIEW SUBMITTAL	QC REPORT
9983535528	LABROATORY DATA FOR WATER	Q4 2002	MICHAEL DENNY	1/2/2003	RECEIVED ON 7/10/2003	VIEW SUBMITTAL	QC REPORT
7928755283	JULY 2003 GROUNDWATER SAMPLING EVENT (LEAD RESULTS)...	Q3 2003	MICHAEL DENNY	10/23/2003	RECEIVED ON 2/9/2004 *	VIEW SUBMITTAL	QC REPORT
6374426960	JULY 2003 GROUNDWATER SAMPLING EVENT (BTEX/OXY DATA)...	Q3 2003	MICHAEL DENNY	10/23/2003	RECEIVED ON 2/9/2004 *	VIEW SUBMITTAL	QC REPORT
1118641614	JULY 2003 GROUNDWATER SAMPLING EVENT (TPH DATA)...	Q3 2003	MICHAEL DENNY	10/23/2003	RECEIVED ON 4/19/2005	VIEW SUBMITTAL	QC REPORT
4370522320	4QTR2003 GROUNDWATER MONITORING EVENT NOVEMBER 2003 LAB DATA...	Q4 2003	MICHAEL DENNY	2/19/2004	RECEIVED ON 3/16/2004	VIEW SUBMITTAL	QC REPORT
3615800738	4QTR2003 GROUNDWATER MONITORING EVENT NOVEMBER 2003 LAB DATA...	Q4 2003	MICHAEL DENNY	2/19/2004	RECEIVED ON 3/16/2004	VIEW SUBMITTAL	QC REPORT
7052514612	GROUNDWATER SAMPLING REPORT FIRST QUARTER 2004- LAB DATA VOCS...	Q1 2004	MICHAEL DENNY	4/26/2004	RECEIVED ON 6/22/2004	VIEW SUBMITTAL	QC REPORT
1959385395	GROUNDWATER MONITORING REPORT 1ST QUARTER 2004- LAB DATA	Q1 2004	MICHAEL DENNY	4/26/2004	RECEIVED ON 6/22/2004	VIEW SUBMITTAL	QC REPORT

3030887126	TPH... GROUNDWATER SAMPLING REPORT SECOND QUARTER-LAB DATA 1...	Q3 2004	MICHAEL DENNY	10/13/2004	**RECEIVED ON 1/31/2005**	VIEW *SUBMITTAL		QC REPORT
4934693336	GROUNDWATER SAMPLING REPORT DECEMBER 2004...	Q4 2004	MICHAEL DENNY	4/4/2005	**RECEIVED ON 4/19/2005**	VIEW SUBMITTAL		QC REPORT
7023624539	GROUNDWATER SAMPLING REPORT DEC 2004-TPH-G AND VOCS...	Q4 2004	MICHAEL DENNY	4/5/2005	**RECEIVED ON 4/19/2005**	VIEW SUBMITTAL		QC REPORT
7409272015	GROUNDWATER MONITORING REPORT-APRIL EVENT...	Q2 2005	MICHAEL DENNY	5/2/2005	**PENDING**	VIEW SUBMITTAL	DELETE SUBMITTAL	QC REPORT

GEO_XY SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS	
4883457779	BRIGHTS 24-HOUR FUEL STOP GEO_XY	MICHAEL DENNY	1/2/2003	**RECEIVED ON 7/10/2003**	VIEW SUBMITTAL

GEO_Z SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS	
2972386002	BRIGHTS 24-HOUR FULE STOP GEO_Z	MICHAEL DENNY	1/2/2003	**RECEIVED ON 7/10/2003**	VIEW SUBMITTAL

GEO_WELL SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS	
6636189103	GEO_WELL.ZIP	MICHAEL DENNY	6/17/2003	**RECEIVED ON 7/10/2003**	VIEW SUBMITTAL
7207890152	JULY 2003 GROUNDWATER SAMPLING EVENT (GROUNDWATER LEVEL DATA...	MICHAEL DENNY	10/23/2003	**RECEIVED ON 4/19/2005**	VIEW SUBMITTAL
4131561100	GROUNDWATER MONITORING REPORT NOVEMBER 2003 SAMPLING EVENT...	MICHAEL DENNY	2/13/2004	**RECEIVED ON 3/16/2004**	VIEW SUBMITTAL
8331771671	GROUNDWATER ELEVATION DATA JULY 2004	MICHAEL DENNY	10/13/2004	**RECEIVED ON 4/19/2005**	VIEW SUBMITTAL
7086668252	DEPTH TO GROUNDWATER DECEMBER 2004	MICHAEL DENNY	4/4/2005	**RECEIVED ON 4/19/2005**	VIEW SUBMITTAL

GEO_MAP SUBMITTALS

CONF NUM	TITLE	SUBMITTED BY	SUBMIT DATE	STATUS	
4786542594	GEO_MAP	MICHAEL DENNY	6/17/2003	**RECEIVED ON 1/29/2004**	VIEW SUBMITTAL

GEO_BORE SUBMITTALS

NO GEO_BORE SUBMITTALS FOR THIS FACILITY.

GEO_REPORT SUBMITTALS
NO GEO_REPORT SUBMITTALS FOR THIS FACILITY.

NAME CHANGE SUBMITTALS
NO NAME CHANGE SUBMITTALS FOR THIS FACILITY.

DUPLICATE FACILITY SUBMITTALS
NO DUPLICATE FACILITY SUBMITTALS FOR THIS FACILITY.

Logged in as MDENNY (AUTH_RP) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 7409272015
Date/Time of Submittal: 5/2/2005 1:26:19 PM
Facility Global ID: T0607399257
Facility Name: BRIGHT'S 24 HOUR FUEL STOP
Submittal Title: Groundwater Monitoring Report-April Event
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BRIGHT'S 24 HOUR FUEL STOP
NO ADDRESS
, CA

Regional Board - Case #: 9UT4087
SAN DIEGO RWQCB (REGION 9) - **(SJP)**
Local Agency (lead agency) - Case #: H20530-001
SAN DIEGO COUNTY LOP - **(Do)**

CONF #	TITLE	QUARTER
7409272015	Groundwater Monitoring Report-April Event	Q2 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Michael Denny	5/2/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	CATPH-D,CATPH-G,SW6010B,SW8260B
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- CATPH-D REQUIRES TPHC28C40 TO BE TESTED	
- CATPH-D REQUIRES TPHC10C28 TO BE TESTED	
- CATPH-G REQUIRES TPHC6C12 TO BE TESTED	
- SW8260B REQUIRES DCA12 TO BE TESTED	
- SW8260B REQUIRES EDB TO BE TESTED	
- SW8260B REQUIRES XYLENES TO BE TESTED	
LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as MDENNY (AUTH_RP) CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

SUCCESSFUL EDF CHECK - NO ERRORS

ORGANIZATION NAME:	Ninyo & Moore
USER NAME:	MDENNY
DATE CHECKED:	5/2/2005 1:21:51 PM
GLOBAL ID:	T0607399257
FILE UPLOADED:	Brights_05-04-1324.zip

No errors were found in your EDF upload file.

If you want to submit this file to the SWRCB, choose the "Upload EDD" option in the above menu and follow the instructions.

When you complete the submittal process, you will be given a confirmation number for your submittal.

Click here to view the detections report for this upload.

BRIGHT'S 24 HOUR FUEL STOP
NO ADDRESS
, CA

Regional Board - Case #: 9UT4087
SAN DIEGO RWQCB (REGION 9) - **(SJP)**
Local Agency (lead agency) - Case #: H20530-001
SAN DIEGO COUNTY LOP - **(Do)**

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	2
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	0
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	CATPH-D,CATPH-G,SW6010B,SW8260B
TESTED FOR REQUIRED ANALYTES?	N

MISSING PARAMETERS NOT TESTED:

- CATPH-D REQUIRES TPHC28C40 TO BE TESTED
- CATPH-D REQUIRES TPHC10C28 TO BE TESTED
- CATPH-G REQUIRES TPHC6C12 TO BE TESTED
- SW8260B REQUIRES DCA12 TO BE TESTED
- SW8260B REQUIRES EDB TO BE TESTED
- SW8260B REQUIRES XYLENES TO BE TESTED

LAB NOTE DATA QUALIFIERS	N

QA/QC FOR 8021/8260 SERIES SAMPLES

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0

DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?

- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE	Y

WATER SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as MDENNY (AUTH_RP) CONTACT SITE ADMINISTRATOR.

APPENDIX C

FIELD DATA SHEETS

Ninyo & Moore

GROUNDWATER ELEVATION DATA SHEET

Project Name: Bright's 24-hour **Project No.:** 104270006

Measurement Method/Equip.: Heron Dipper-T **By:** JDP

Well ID	Well Group ID	Date	Time	TOC Surveyed Elevation (feet msl)	Depth to Immiscible Layer (feet TOC)	Immiscible Layer Thickness (feet)	Depth to Groundwater (feet)	Comments
MW-1		4/18/05	9:33	392.53	N/A	N/A	21.51	
MW-2		↓	9:27	391.29	↓	↓	21.08	
MW-3		↓	9:19	393.45	↓	↓	23.72	
MW-4		↓	9:42	392.39	↓	↓	22.23	
MW-5		↓	9:51	392.71	↓	↓	22.71	

Ninyo & Moore

GROUNDWATER SAMPLING FIELD DATA SHEET

San Diego County

Project Name: *Bright's 24-HourFuel Stop* Date: 4/18/05 Sampler: JBP

Project No.: *10427006* Weather: Sunny, 20°C

Monitoring Well ID: MW-1

Casing Diameter: ☐ 2" ☒ 4" ☐ 6" ☐ Other Casing Material: ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): 40.75 LNAPL Observed?: N DNAPL Observed?: N

Depth to Water (ft-TOC): 21.49 LNAPL Thickness (ft): — DNAPL Thickness (ft): —

Water Column Height (feet): 19.40 x 2"/8" = 0.78, 4"/10" = 1.51 gal/ft = 29.29 x 1/3 = 87.87 Min. Purge Volume (gallons)

Water Level Measurement Equip.: Dipper-T Cleaned: Y

Purging Method/Equipment: 12-volt submersible Cleaned: Y

Pump Lines/~~Bailer Rope~~s-New or Cleaned?: Clean

TIME	PURGE VOL. (gallons)	TEMP. (°F)	pH	COND. (µS/cm)	COMMENTS (color, turbidity, odor, sheen, etc.):
14:55	start	—	—	—	clear, no odor/sheen
15:00	5-gal	23.1	6.75	2.18	0.10 Sal, 137 turb, 8.02 DO; clear no odor/sheen
15:05	10-gal	22.6	6.82	2.26	0.10 Sal, 169 turb, 8.23 DO;
15:10	15-gal	22.4	6.89	2.26	0.10 Sal, 136 turb, 8.22 DO;
15:15	20-gal	22.6	6.93	2.27	0.11 Sal, 0 turb, 7.73 DO;
15:20	25-gal	22.2	6.94	2.26	0.10 Sal, 138 turb, 8.22 DO;
15:25	30-gal	22.4	6.92	2.25	0.10 Sal, 0 turb, 7.39 DO;
15:30	35-gal	22.4	6.95	2.25	0.10 Sal, 0 turb, 7.57 DO;
15:35	40-gal	22.1	6.94	2.25	0.10 Sal, 0 turb, 7.65 DO;
15:39	45-gal	22.1	6.94	2.25	0.10 Sal, 0 turb, 7.62 DO;
15:44	50-gal	22.1	6.96	2.24	0.10 Sal, 0 turb, 7.82 DO;
15:49	55-gal	22.0	6.94	2.25	0.10 Sal, 133 turb, 7.87 DO;
15:53	60-gal	22.0	6.95	2.24	0.10 Sal, 0 turb, 7.76 DO;
15:58	65-gal	21.9	6.95	2.24	0.10 Sal, 0 turb, 7.65 DO;
	OVER!				

Total Volume Purged (gallon): 88 gallons Time Finished Purging: 16:20

Sampling Method/Equipment: *New dedicated disposable bailer*

Bailer Rope-New or Cleaned?: *New*

Sample Time: 16:35

Sample ID: NM03-MW01

Replicate ID (if appl.)

Laboratory: *CalScience*

Comments: (e.g., Equipment Blank Collected)
21.51' BTOC prior to sampling

PARAMETER	USEPA METHOD	CONTAINERS/VOL./ TYPE (VOA/Glass/Plastic)	PRESER-VATIVE
TPH-g	*8015M*	*VOA*	*HCL*
TPH-d	*8015M*	*500 mL Amber*	*HCL*
BTEX & oxygenates	*8260B*	*VOA*	*HCL*
Total Lead	*6010*	*Plastic*	*HNO_3*

Ninyo & Moore

GROUNDWATER SAMPLING FIELD DATA SHEET

San Diego County

Project Name: *Bright's 24-HourFuel Stop* Date: 4/18/05 Sampler: *JBP*

Project No.: *10427006* Weather: Overcast 20°C

Monitoring Well ID: MW-2

Casing Diameter: ☐ 2" ☒ 4" ☐ 6" ☐ Other Casing Material: ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): 38.34 LNAPL Observed?: N DNAPL Observed?: N

Depth to Water (ft-TOC): 20.98 LNAPL Thickness (ft): — DNAPL Thickness (ft): —

Water Column Height (feet): 17.36 x (2"/8" = 0.78; 4"/10" = 1.51) gal/ft = 26.21 x 1.5 = 78.63 Min. Purge Volume (gallons)

Water Level Measurement Equip.: Dipper-T Cleaned: Y

Purging Method/Equipment: 12 volt submersible pump Cleaned: Y

Pump Lines/~~Bailer Rope~~s-New or Cleaned?: clean

TIME	PURGE VOL. (gallons)	TEMP. (°F)	pH	COND. (µS/cm)	COMMENTS (color, turbidity, odor, sheen, etc.):
13:00	start	–	–	–	clear, no odor / sheen
13:05	5-gal	23.3	6.80	2.17	0.18 Sal, 8 turb, 2.99 DO, clear, no odor / sheen
13:09	10-gal	23.5	6.77	2.14	0.10 Sal, 20 turb, 1.22 DO;
13:14	15-gal	23.6	6.77	2.13	0.10 Sal, 158 turb, 8.00 DO;
13:18	20-gal	23.4	6.75	2.13	0.10 Sal, 193 turb, 8.20 DO;
13:22	25-gal	23.5	6.74	2.12	0.10 Sal, 177 turb, 8.59 DO;
13:27	30-gal	24.0	6.73	2.12	0.10 Sal, 136 turb, 1.93 DO;
13:31	35-gal	23.8	6.72	2.11	0.10 Sal, 137 turb, 8.39 DO;
13:36	40-gal	23.7	6.73	2.11	0.10 Sal, 8 turb, 0.59 DO;
13:40	45-gal	23.9	6.72	2.12	0.10 Sal, 136 turb, 8.30 DO;
13:44	50-gal	23.7	6.73	2.12	0.10 Sal, 9 turb, 0.11 DO;
13:49	55-gal	23.6	6.73	2.12	0.10 Sal, 136 turb, 8.17 DO;
13:53	60-gal	23.6	6.72	2.12	0.10 Sal, 167 turb, 8.28 DO;
13:57	65-gal	23.6	6.72	2.11	0.10 Sal, 135 turb, 8.36 DO;
	OVER!				

Total Volume Purged (gallon): 79-gallons Time Finished Purging: 14:10

Sampling Method/Equipment: *New dedicated disposable bailer*

Bailer Rope-New or Cleaned?: New

Sample Time: 14:32

Sample ID: NN03-MW02

Replicate ID (if appl.)

Laboratory: *CalScience*

Comments: (e.g., Equipment Blank Collected)

PARAMETER	USEPA METHOD	CONTAINERS/VOL./ TYPE (VOA/Glass/Plastic)	PRESER-VATIVE
TPH-g	*8015M*	*VOA*	*HCL*
TPH-d	*8015M*	*500 mL Amber*	*HCL*
BTEX & oxygenates	*8260B*	*VOA*	*HCL*
Total Lead	*6010*	*Plastic*	*HNO_3*

Ninyo & Moore

GROUNDWATER SAMPLING FIELD DATA SHEET

San Diego County

Project Name: *Bright's 24-HourFuel Stop* Date: 4/18/05 Sampler: *JBP*

Project No.: *10427006* Weather: Overcast, 20°C

Monitoring Well ID: MW-3

Casing Diameter: ☐ 2" ☒ 4" ☐ 6" ☐ Other Casing Material: ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): 37.20 LNAPL Observed?: N DNAPL Observed?: N

Depth to Water (ft-TOC): 23.70 LNAPL Thickness (ft): DNAPL Thickness (ft):

Water Column Height (feet): 13.5 x (2"/8" = 0.78; 4"/10" = 1.51) gal/ft = 20.39 x 3 (1 set recovery) = 61.17 Min. Purge Volume (gallons)

Water Level Measurement Equip.: Dipper-T Cleaned: Y

Purging Method/Equipment: 12-volt submersible pump Cleaned: Y

Pump Lines/~~Bailer Rope~~-New or Cleaned?: Cleaned

TIME	PURGE VOL. (gallons)	TEMP. (°F)	pH	COND. (µS/cm)	COMMENTS (color, turbidity, odor, sheen, etc.):
10:25	start	—	—	—	clear, no odor/sheen
10:30	5-gal	22.8	5.97	2.51	0.12 Sal; 1.83 turb; 7.74 DO; clear, no odor/sheen
10:36	10-gal	22.8	6.09	2.40	0.11 Sal; 60 turb; 0.98 DO;
10:41	15-gal	22.7	6.16	2.39	0.11 Sal, 150 turb; 7.51 DO;
10:46	20-gal	22.8	6.24	2.35	0.11 Sal; 0 turb; 1.07 DO;
10:51	25-gal	22.8	6.27	2.38	0.11 Sal, 142 turb, 7.61 DO;
10:56	30-gal	22.9	6.32	2.34	0.11 Sal, 42 turb; 0.81 DO;
11:02	35-gal	22.9	6.35	2.38	0.11 Sal; 0 turb; 0.99 DO;
11:08	40-gal	22.9	6.39	2.35	0.11 Sal; 181 turb; 7.42 DO;
11:13	45-gal	22.8	6.44	2.34	0.11 Sal; 138 turb, 7.57 DO;
11:18	50-gal	23.2	6.45	2.34	0.11 Sal; 140 turb; 7.44 DO;
11:24	55-gal	22.9	6.50	2.36	0.11 Sal; 146 turb; 7.70 DO;
11:29	60-gal	23.1	6.51	2.34	0.11 Sal; 179 turb; 6.99 DO;
11:31	Remove pump from well, measure depth 26.77' BTOC				

Total Volume Purged (gallon): 62-gallons Time Finished Purging: 11:31

Sampling Method/Equipment: *New dedicated disposable bailer*

Bailer Rope-New or Cleaned?: *New*

Sample Time: 12:45

Sample ID: NM03-MW03

Replicate ID (if appl.)

Laboratory: *CalScience*

Comments: (e.g., Equipment Blank Collected)
23.65' @ sample time

PARAMETER	USEPA METHOD	CONTAINERS/VOL./ TYPE (VOA/Glass/Plastic)	PRESERVATIVE
TPH-g	*8015M*	*VOA*	*HCL*
TPH-d	*8015M*	*500 mL Amber*	*HCL*
BTEX & oxygenates	*8260B*	*VOA*	*HCL*
Total Lead	*6010*	*Plastic*	*HNO_3*

Ninyo & Moore

GROUNDWATER SAMPLING FIELD DATA SHEET

San Diego County

Project Name: *Bright's 24-HourFuel Stop* Date: 4-20-05 Sampler: JBP, MLF

Project No.: *10427006* Weather: Sunny, 20°C

Monitoring Well ID: MW-4

Casing Diameter: ☐ 2" ☒ 4" ☐ 6" ☐ Other Casing Material: ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): 38.47 LNAPL Observed?: DNAPL Observed?:

Depth to Water (ft-TOC): 22.18 LNAPL Thickness (ft): DNAPL Thickness (ft):

Water Column Height (feet): 16.29 x (2"/8" = 0.78; 4"/10" = 1.51) gal/ft = 24.60 x 3 = 73.8 Min. Purge Volume (gallons)

Water Level Measurement Equip.: Dipper-T Cleaned: Y

Purging Method/Equipment: 12-volt submersible pump Cleaned: Y

Pump Lines/~~Bailer Rope~~s-New or Cleaned?: Clean

TIME	PURGE VOL. (gallons)	TEMP. (°F)	pH	COND. (µS/cm)	COMMENTS (color, turbidity, odor, sheen, etc.):
9:41	start	-	-	-	clear, no odor/sheen
9:46	5-gal	23.2	6.73	2.34	0.11Sal, 39turb, 1.28DO; clear, no odor/sheen
9:51	10-gal	23.2	6.46	2.35	0.11Sal, 117turb, 7.53DO;
9:54	15-gal	23.1	6.18	2.34	0.11Sal, 0turb, 0.89DO;
9:59	20-gal	23.2	6.09	2.34	0.11Sal, 136turb, 7.52DO;
10:05	25-gal	23.5	6.05	2.33	0.11Sal, 0turb, 0.35DO;
10:09	30-gal	23.3	6.06	2.33	0.11Sal, 0turb, 0.49DO;
10:16	35-gal	23.5	6.07	2.33	0.11Sal, 0turb, 0.44DO;
10:19	40-gal	23.5	6.09	2.32	0.11Sal, 134turb, 8.00DO;
10:24	45-gal	23.5	6.11	2.31	0.11Sal, 164turb, 7.87DO;
10:29	50-gal	23.3	6.14	2.31	0.11Sal, 0turb, 0.99DO;
10:34	55-gal	23.7	6.19	2.31	0.11Sal, 0turb, 1.72DO;
10:38	60-gal	24.1	6.23	2.30	0.11Sal, 132turb, 8.00DO;
10:43	65-gal	23.6	6.26	2.32	0.11Sal, 130turb, 8.22DO;
	OVER!				

Total Volume Purged (gallon): 74-gallons Time Finished Purging: 10:52

Sampling Method/Equipment: *New dedicated disposable bailer*

Bailer Rope-New or Cleaned?: New

Sample Time: 11:25

Sample ID: NMOS-MW04

Replicate ID (if appl.)

Laboratory: CalScience

Comments: (e.g., Equipment Blank Collected)

22.76' BTOC prior to sampling

PARAMETER	USEPA METHOD	CONTAINERS/VOL./ TYPE (VOA/Glass/Plastic)	PRESER-VATIVE
TPH-g	8015M	VOA	HCL
TPH-d	8015M	500 mL Amber	HCL
BTEX & oxygenates	8260B	VOA	HCL
Total Lead	6010	Plastic	HNO_3

Ninyo & Moore

GROUNDWATER SAMPLING FIELD DATA SHEET

San Diego County

Project Name: *Bright's 24-HourFuel Stop* Date: 4/20/05 Sampler: JBP

Project No.: *10427006* Weather: Sunny, 20°C

Monitoring Well ID: MW-5

Casing Diameter: ☐ 2" ☒ 4" ☐ 6" ☐ Other Casing Material: ☒ SCH 40-PVC ☐ Other: S. Steel

Total Depth (ft-TOC): 37.95 LNAPL Observed?: N DNAPL Observed?: N

Depth to Water (ft-TOC): 22.72 LNAPL Thickness (ft): – DNAPL Thickness (ft): –

Water Column Height (feet): 15.23 x (2"/8" = 0.78; 4"/10" = 1.51) gal/ft = 23.00 x 1.5 = 69 Min. Purge Volume (gallons)

Water Level Measurement Equip.: Dipper-T Cleaned: Y

Purging Method/Equipment: 12-volt submersible pump Cleaned: Y

Pump Lines/~~Bailer Ro~~pes-New or Cleaned?: Clean

TIME	PURGE VOL. (gallons)	TEMP. (°F)	pH	COND. (µS/cm)	COMMENTS (color, turbidity, odor, sheen, etc.):
11:36	start	–	–	–	slightly cloudy, brown, no odor/sheen
11:41	5-gal	24.1	6.10	1.72	0.10 Sal; 85 turb; 0.62 DO, clear, no odor/sheen
11:46	10-gal	23.7	6.40	1.78	0.08 Sal, 71 turb, 0.82 DO,
11:51	15-gal	23.1	6.50	1.81	0.08 Sal; 136 turb, 8.98 DO;
11:56	20-gal	23.5	6.56	1.81	0.08 Sal; 0 turb, 8.73 DO;
12:01	25-gal	23.3	6.56	1.83	0.08 Sal; 120 turb, 8.74 DO;
12:06	30-gal	23.2	6.57	1.84	0.08 Sal; 131 turb; 8.90 DO;
12:11	35-gal	23.4	6.57	1.84	0.08 Sal; 11 turb; 1.30 DO;
12:16	40-gal	23.6	6.56	1.84	0.08 Sal; 0 turb; 0.48 DO;
12:21	45-gal	23.6	6.57	1.84	0.08 Sal; 7 turb; 0.66 DO;
12:26	50-gal	23.5	6.57	1.86	0.08 Sal; 0 turb; 0.99 DO;
12:31	55-gal	23.1	6.58	1.85	0.08 Sal, 0 turb, 0.68 DO;
12:35	60-gal	23.3	6.58	1.89	0.08 Sal, 0 turb; 0.60 DO;
12:40	65-gal	23.4	6.58	1.88	0.08 Sal; 0 turb; 0.69 DO;
12:44	69-gal	23.3	6.58	1.90	0.09 Sal; 0 turb; 0.62 DO;

Total Volume Purged (gallon): 69-gallons max-77.92 Time Finished Purging: 12:45

Sampling Method/Equipment: *New dedicated disposable bailer*

Bailer Rope-New or Cleaned?: *New*

Sample Time: 13:00

Sample ID: NM03-MW05

Replicate ID (if appl.)

Laboratory: *CalScience*

Comments: (e.g., Equipment Blank Collected)

PARAMETER	USEPA METHOD	CONTAINERS/VOL./ TYPE (VOA/Glass/Plastic)	PRESERVATIVE
TPH-g	*8015M*	*VOA*	*HCL*
TPH-d	*8015M*	*500 mL Amber*	*HCL*
BTEX & oxygenates	*8260B*	*VOA*	*HCL*
Total Lead	*6010*	*Plastic*	*HNO_3*

APPENDIX D

ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY DOCUMENTATION

Calscience
Environmental
Laboratories, Inc.

April 29, 2005

Brendon Phelan
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Subject: **Calscience Work Order No.:** **05-04-1324**
Client Reference: **12210 Industry Road / 104270006**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 04/21/2005 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The original report of any subcontracted analysis is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Virendra R Patel

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH ... nelac

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received: 04/21/05
Work Order No: 05-04-1324
Preparation: EPA 3010A Total
Method: EPA 6010B

Project: 12210 Industry Road / 104270006

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW01	**05-04-1324-1**	**04/18/05**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW02	**05-04-1324-2**	**04/18/05**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW03	**05-04-1324-3**	**04/18/05**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW04	**05-04-1324-4**	**04/20/05**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW05	**05-04-1324-5**	**04/20/05**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-4,809**	**N/A**	**Aqueous**	**04/22/05**	**04/25/05**	**050422L05**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	04/21/05
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 5030B
		Method:	DHS LUFT

Project: 12210 Industry Road / 104270006

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW01	**05-04-1324-1**	**04/18/05**	**Aqueous**	**04/27/05**	**04/27/05**	**050427B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	89	49-133			

NM03 - MW02	**05-04-1324-2**	**04/18/05**	**Aqueous**	**04/27/05**	**04/27/05**	**050427B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	87	49-133			

NM03 - MW03	**05-04-1324-3**	**04/18/05**	**Aqueous**	**04/27/05**	**04/27/05**	**050427B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	96	49-133			

NM03 - MW04	**05-04-1324-4**	**04/20/05**	**Aqueous**	**04/27/05**	**04/27/05**	**050427B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
1,4-Bromofluorobenzene	88	49-133			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received: 04/21/05
Work Order No: 05-04-1324
Preparation: EPA 5030B
Method: DHS LUFT

Project: 12210 Industry Road / 104270006

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW05	**05-04-1324-5**	**04/20/05**	**Aqueous**	**04/27/05**	**04/27/05**	**050427B01**

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	49-133	

Method Blank	098-03-006-6,834	N/A	Aqueous	04/27/05	04/27/05	050427B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	100	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	93	49-133	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	04/21/05
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 3510C
		Method:	DHS LUFT

Project: 12210 Industry Road / 104270006

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW01	**05-04-1324-1**	**04/18/05**	**Aqueous**	**04/26/05**	**04/26/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	106	51-141			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW02	**05-04-1324-2**	**04/18/05**	**Aqueous**	**04/26/05**	**04/26/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	102	51-141			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW03	**05-04-1324-3**	**04/18/05**	**Aqueous**	**04/26/05**	**04/26/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	105	51-141			

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW04	**05-04-1324-4**	**04/20/05**	**Aqueous**	**04/26/05**	**04/27/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**		**Qual**	
Decachlorobiphenyl	102	51-141			

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore	Date Received:	04/21/05
5710 Ruffin Road	Work Order No:	05-04-1324
San Diego, CA 92123-1013	Preparation:	EPA 3510C
	Method:	DHS LUFT

Project: 12210 Industry Road / 104270006

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW05	**05-04-1324-5**	**04/20/05**	**Aqueous**	**04/26/05**	**04/27/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	105	51-141	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**098-03-039-584**	**N/A**	**Aqueous**	**04/26/05**	**04/26/05**	**050426B02**

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	500	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	51-141	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	04/21/05
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 5030B
		Method:	EPA 8260B
		Units:	ug/L

Project: 12210 Industry Road / 104270006 — Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW01	**05-04-1324-1**	**04/18/05**	**Aqueous**	**04/26/05**	**04/27/05**	**050426L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	116	74-140		1,2-Dichloroethane-d4	106	74-146	
Toluene-d8	97	90-108		1,4-Bromofluorobenzene	104	74-110	

NM03 - MW02	**05-04-1324-2**	**04/18/05**	**Aqueous**	**04/26/05**	**04/27/05**	**050426L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	103	74-146	
Toluene-d8	99	90-108		1,4-Bromofluorobenzene	102	74-110	

NM03 - MW03	**05-04-1324-3**	**04/18/05**	**Aqueous**	**04/26/05**	**04/27/05**	**050426L02**

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	8.9	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	117	74-140		1,2-Dichloroethane-d4	112	74-146	
Toluene-d8	97	90-108		1,4-Bromofluorobenzene	96	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore	Date Received:	04/21/05
5710 Ruffin Road	Work Order No:	05-04-1324
San Diego, CA 92123-1013	Preparation:	EPA 5030B
	Method:	EPA 8260B
	Units:	ug/L

Project: 12210 Industry Road / 104270006 — Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM03 - MW04	05-04-1324-4	04/20/05	Aqueous	04/26/05	04/27/05	050426L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	8.5	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	102	74-146	
Toluene-d8	100	90-108		1,4-Bromofluorobenzene	103	74-110	

NM03 - MW05	05-04-1324-5	04/20/05	Aqueous	04/26/05	04/27/05	050426L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	108	74-140		1,2-Dichloroethane-d4	103	74-146	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	100	74-110	

Method Blank	099-10-006-14,149	N/A	Aqueous	04/26/05	04/27/05	050426L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Tert-Butyl Alcohol (TBA)	ND	10	1	
Ethylbenzene	ND	1.0	1		Diisopropyl Ether (DIPE)	ND	2.0	1	
Toluene	ND	1.0	1		Ethyl-t-Butyl Ether (ETBE)	ND	2.0	1	
p/m-Xylene	ND	1.0	1		Tert-Amyl-Methyl Ether (TAME)	ND	2.0	1	
o-Xylene	ND	1.0	1		Ethanol	ND	100	1	
Methyl-t-Butyl Ether (MTBE)	ND	1.0	1						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
Dibromofluoromethane	113	74-140		1,2-Dichloroethane-d4	96	74-146	
Toluene-d8	98	90-108		1,4-Bromofluorobenzene	101	74-110	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore	Date Received: 04/21/05
5710 Ruffin Road	Work Order No: 05-04-1324
San Diego, CA 92123-1013	Preparation: EPA 3010A Total
	Method: EPA 6010B

Project 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-04-1339-1	Aqueous	ICP 3300	04/22/05	04/25/05	050422S05

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	100	100	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore	Date Received: 04/21/05
5710 Ruffin Road	Work Order No: 05-04-1324
San Diego, CA 92123-1013	Preparation: EPA 5030B
	Method: DHS LUFT

Project 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-04-1264-2	Aqueous	GC 30	04/27/05	04/27/05	050427S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	100	97	70-112	3	0-17	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	04/21/05
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM03 - MW05	Aqueous	GC/MS Z	04/26/05	04/27/05	050426S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	101	88-118	3	0-7	
Carbon Tetrachloride	115	116	67-145	1	0-11	
Chlorobenzene	101	104	88-118	3	0-7	
1,2-Dichlorobenzene	98	102	86-116	3	0-8	
1,1-Dichloroethene	115	111	70-130	4	0-25	
Toluene	105	105	87-123	0	0-8	
Trichloroethene	104	104	79-127	0	0-10	
Vinyl Chloride	105	101	69-129	4	0-13	
Methyl-t-Butyl Ether (MTBE)	101	100	71-131	1	0-13	
Tert-Butyl Alcohol (TBA)	82	84	36-168	3	0-45	
Diisopropyl Ether (DIPE)	106	103	81-123	2	0-9	
Ethyl-t-Butyl Ether (ETBE)	96	93	72-126	3	0-12	
Tert-Amyl-Methyl Ether (TAME)	101	99	72-126	1	0-12	
Ethanol	103	101	53-149	2	0-31	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore	Date Received: N/A
5710 Ruffin Road	Work Order No: 05-04-1324
San Diego, CA 92123-1013	Preparation: EPA 3010A Total
	Method: EPA 6010B

Project: 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-4,809	Aqueous	ICP 3300	04/25/05	050422-I-05	050422L05

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	1.00	1.01	101	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 5030B
		Method:	DHS LUFT

Project: 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-006-6,834	Aqueous	GC 30	04/27/05	04/27/05	050427B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	105	104	72-114	1	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH ELAP nelac

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 3510C
		Method:	DHS LUFT

Project: 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
098-03-039-584	Aqueous	GC 3	04/26/05	04/26/05	050426B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	88	94	60-132	6	0-11	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-04-1324
San Diego, CA 92123-1013		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: 12210 Industry Road / 104270006

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-006-14,149	Aqueous	GC/MS Z	04/26/05	04/27/05	050426L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	106	84-120	6	0-8	
Carbon Tetrachloride	114	118	63-147	4	0-10	
Chlorobenzene	101	106	89-119	4	0-7	
1,2-Dichlorobenzene	95	102	89-119	7	0-9	
1,1-Dichloroethene	115	118	77-125	3	0-16	
Toluene	105	110	83-125	4	0-9	
Trichloroethene	105	112	89-119	6	0-8	
Vinyl Chloride	109	114	63-135	4	0-13	
Methyl-t-Butyl Ether (MTBE)	104	101	82-118	3	0-13	
Tert-Butyl Alcohol (TBA)	73	83	46-154	13	0-32	
Diisopropyl Ether (DIPE)	102	102	81-123	0	0-11	
Ethyl-t-Butyl Ether (ETBE)	95	95	74-122	0	0-12	
Tert-Amyl-Methyl Ether (TAME)	99	101	76-124	2	0-10	
Ethanol	93	110	60-138	17	0-32	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-04-1324

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike or Matrix Spike Duplicate compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

CALSCIENCE ENVIRONMENTAL
LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date April 18, 2005

Page 1 of 1

LABORATORY CLIENT: Ninyo & Moore	CLIENT PROJECT NAME / NUMBER: 12210 Industry Road / 104270006		P.O. NO.:
ADDRESS: 5710 Ruffin Road	PROJECT CONTACT: Brendon Phelan / Sean McCoey		LAB USE ONLY 04-0324
CITY: San Diego STATE: CA ZIP: 92123	SAMPLER(S): (SIGNATURE) J. Brendon Phelan	COELT LOG CODE	COOLER RECEIPT TEMP = °C
TEL: (858) 576-1000 FAX: (858) 576-9600 E-MAIL: bphelan@ninyoandmoore.com			

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☒ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ~~☐~~ COELT EDF ☒ Geotracker EDF

SPECIAL INSTRUCTIONS:
Consultant ID: NMSD
Global ID: T0607399257

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead (6010)
1	NM03 - MW01	NM-B1/MW1	4/18/05	16:35	H_2O	8	X	X	X	X										X
2	- MW02	NM-B2/MW2	↓	14:32	↓	↓	↓	↓	↓	↓										↓
3	- MW03	NM-B3/MW3	↓	12:45	↓	↓	↓	↓	↓	↓										↓
4	- MW04	NM-B4/MW4	4/20/05	11:25	↓	↓	↓	↓	↓	↓										↓
5	- MW05	NM-B5/MW5	↓	13:00	↓	↓	↓	↓	↓	↓										↓

Relinquished by: (Signature) J. Brendon Phelan	Received by: (Signature) CEL	Date: 4/21/5	Time: 1300
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) CEL	Received for Laboratory by: (Signature) CEL	Date: 4/21/5	Time: 1735

DISTRIBUTION: When with final report, Green to file, Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow

10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05 - 04 - 1324

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Kunyo + Moore DATE: 4/20/5

TEMPERATURE – SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
✓ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

2.6 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers for analyses requested	✓		
Proper preservation noted on sample label(s)	✓		
VOA vial(s) free of headspace.	✓		
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS: